

## **SCANNABLE CLEAN TEXT FOR SPECIFICATION:**

### **Page 32, lines 8-21:**

Figure 1 shows a fully automated gaming table 1 of the prior art, as disclosed in US Patent Application 2003/0199316. The system 1 comprises a vertical upright display cabinet 2 and a player bank or station cluster arrangement 3. The vertical display cabinet 2 has a viewing screen 7 with a top section 4 on which images of the virtual dealer are displayed. The top 8 of the player bank arrangement 3 has individual monitor screens 10 for each player position, as well as tabletop inserted coin acceptors 11, and player controls 12 and 13. The motherboard 6 is shown underneath the top 8 of the player bank arrangement 3. There is a separate and larger dealer's hand screen 9 on which dealer cards are displayed in a format large enough for all players to view. Speakers 16a and 16b are provided for sound transmission and decorative lights 14 are provided. Figure 2 shows an overhead view of the same prior art automated gaming system 1 with the viewing screen 7 shown more clearly as a CRT monitor. It can also be seen that each player position has to form an arc cut into the semicircular player seating area 18. Figure 3 shows a side view of the same prior art automated gaming system of Figures 1 and 2 where the orientation of the three different types of CRT monitors 7, 9 and 10 are shown. The housing 5 and motherboard 6 in the Prior Art (US Publication 20030199316) are shown.

### **Page 33, lines 3-6:**

The RAM 202 is used as the work area for the main CPU 201. The RAM 203 stores the initialization program used for the initialization process. The SCU 200 controls the busses 205, 206 and 207 so that data can be exchanged smoothly among the VDPs 220 and 230, the DSP 241, and other components.

### **Page 36, lines 1-12:**

Figure 6 shows an electronic/processor schematic for a MultiPlayer Platform (MPP) gaming system according to the present invention. The MPP Game engine (dealer) comprises a Heber Pluto 5 casino game board 290 (Motorola 68340 board) operating off the PC Platform

Pentium 4 MPP Game Display processor **292**. The game display processor operates on a Windows XP platform. The respective subcomponents on the Pentium 4 processor are labeled to show the apportionment of activity on the motherboard and the component parts added to the board. As is shown, the game engine has an Uninterruptible Power Supply **294**. The game display processor directs activity on the Speakers, directs activities onto the MPP Game Service panel, and the Plasma Monitor Card Table display. It is important to note that all communications are direct from the game display processor, freeing up resources available to the game engine processor.

**Page 34, line 27 – page 35, line 20:**

The sound block **22** comprises a DSP **240** for performing sound synthesis using PCM format or FM format, and a CPU **241** for controlling the DSP **240**. Sound data generated by the DSP **240** is converted into 2-channel sound signals by a D/A converter **270** and is then presented to audio output terminals Ao via interface **271**. These audio output terminals Ao are connected to the input terminals of an audio amplification circuit. Thus, the sound signals presented to the audio output terminals Ao are input to the audio amplification circuit (not shown). Sound signals amplified by the audio amplification circuit drive the speakers **16a** and **16b**. The subsystem **23** comprises a CD-ROM drive **19b**, a CD-I/O (CD input/output) **280**, and CPU **281**, an MPEG-AUDIO section **282**, and an MPEG-PICTURE section **283**. The subsystem **23** has the function of reading application software provided in the form of a CD-ROM and reproducing the animation. The CD-ROM drive **19b** reads out data from CD-ROM. The CPU **281** controls the CD-ROM drive **19b** and performs error correction on the data read out by it. Data read from the CD-ROM is sent via the CD-I/F **280**, bus **206**, and SCU **200** to the main CPU **201** that uses it as the application software. The MPEG-AUDIO section **282** and the MPEG-PICTURE section **283** are used to expand data that has been compressed in MPEG (Motion Picture Expert Group) format. By using the MPEG-AUDIO section **282** and the MPEG-PICTURE section **283** to expand data that has been compressed in MPEG format, it is possible to reproduce motion picture. It should be noted herein that there are distinct processor for the CPU block, video block, sound block, CD-ROM drive and Memory with their independent PCU's. This requires significant computing power and still has dumb (no intelligence) player input components.

**Page 36, lines 18-26:**

Figure 7 shows the electronic/processing schematics of the MPP Player Station 400 Intelligence board (Heber Pluto 5 Casino, Motorola 68340), each of which player stations (one for each player position) are in direct connection to the MPP Game Engine (Dealer), which is in turn directly connected to the PC Platform. (not shown in this Figure). Each Intelligence board 300 receives information for all player input systems specific to that player station, such as the shown Coin Acceptor 310, Coin Hopper 312, Bill Validator 314, Ticket Printer 316, Touch Screen 317 and/or Display Button Panel 318, Dual Wire Ticket-in-Ticket-Out Printing and SAS System 320 (SAS is one exemplary standard communications protocol used by a number of casinos central computer systems.) A significant benefit resides in the use of the independent Intelligence boards 305 at each player position being in direct communication with the MPP Game Engine 300, as opposed to each individual player position button panel being dead or inactive until authorized by the main game processor, as previous automated gaming systems were constructed.

**Page 39, lines 1-15:**

contain all of the low level and high level programming tools and library functions. These systems can be provided through a Pluto 5 Enhanced Development Kit datasheet 80-15353-7 Heber Limited, Belvedere Mill, Chalford, Stroud, Gloucestershire, GL6 8NT, UK Tel: +44 (0) 1453 886000 Fax: +44 (0) 1453 885013.

**Page 64, lines 13-29:**

Figure 9 shows a partial perspective view of the top surface 4h of a first shuffling apparatus 2h according to a practice of the invention. In this example of the invention, the device randomizes one or two decks of cards. The shuffling apparatus has a card accepting/receiving area 6h that is preferably provided with a stationary lower support surface

that slopes downwardly from the nearest outer side **9h** of the shuffling apparatus **2h**. A depression **10h** is provided in that nearest outer side **9h** to facilitate an operator's ability to place or remove cards into the card accepting/receiving area **6h**. The top surface **4h** of the shuffling apparatus **2h** is provided with a visual display **12h** (e.g., LED, liquid crystal, micro monitor, semiconductor display, etc.), and a series of buttons **28h 30h**, touch pads, lights and/or displays **24h** and **26h**. These elements on the top surface **4h** of the shuffling device **2h** may act to indicate power availability (on/off), shuffler state (jam, active shuffling, completed shuffling cycle, insufficient numbers of cards, missing cards, sufficient numbers of cards, complete deck(s), damaged or marked cards, entry functions for the dealer to identify the number of players, the number of cards per hand, access to fixed programming for various games, the number of decks being shuffled, card calibration information and the like), or other information useful to the operator or casino.

**Page 68, lines 8-20:**

The microprocessor (not shown) controls and directs the operation of the shuffling apparatus **112**. The microprocessor also receives and responds to information provided to it. For example, a set of sensing devices **152** are used to determine the movement point of the elevator that positions the top card in a set of cards (not shown) within the card mixing area **150** at a specific elevation. The sensing devices **152** identify when an uppermost card on the platform **156** or the top of the platform itself is level with the sensors **152**. This information is provided to the microprocessor. A reading system **170** may also be used to provide information, such as the number of cards that have been fed from the card accepting/receiving area **116** into the card mixing area **150** so that the number of cards shuffled and the number of cards present on the platform **156** at any given time is known. This information, such as the number of cards present within the card mixing area **150**, is used by the microprocessor, as later explained to randomly arrange and thus shuffle cards according to the programming of the system.

**Page 72, lines 9-16:**

Figure 11 shows a perspective cutaway of the drive rollers or nip rollers **142, 144** and **146** of a first example of the invention. These are not truly sets of nip rollers, but are off-set

rollers, so that rollers 142a, 144a and 144b, 146a and 146b are not precisely linearly oriented. By selecting a nip width that is not so tight as to press a card from both sides of the card at a single position, and by selecting offset rollers rather than aligned nip rollers, fluid movement of the card, reduced damage of the card, and reduced jamming may be provided. This is a particularly desirable aspect of a preferred practice of the present invention, which is shown also in Figure 4.

**Page 77, lines 1-16:**

Figure 14 shows a vertical perspective view of another apparatus 500 according to the invention. That apparatus 500 is shown with a flip-up cover 502 with sections 504 and 506 that overlay the elevator platform 512 and the card insertion area 510 with an edge 522 to the card insertion area 510. An extension or tab 507 is provided to nest into open area 508 to assist lifting of the flip-up cover 502 when needed. The open area 508 leaves some additional space for a finger or tool to be inserted against the extension 507 to assist in its lifting. That additional space may be designed to accommodate only a tool so as to reduce any possibility of ready player opening of the shuffling apparatus 500. In a preferred embodiment of the invention, there is provided an arm extension 514 of the elevator that contacts an internal edge 513 of the flip-up cover 502, here with a roller 515 shown as the contact element, to lift the cover 502 when the elevator platform 512 rises to a level where cards are to be removed, the extension 514 forces the cover 502 to lift from the top 517 of the apparatus 500 having a front edge 532, and back edge 530. The extension 514 also will buffer playing cards from moving as they are lifted from the elevator platform 512, although additional elements (not shown) may be used to restrain movement of the cards when elevated to a removal level. In this example of the invention, side panels are not used to stabilize the stack of delivered cards.

**Page 80, lines 14-20:**

An additional design improvement with respect to the apparatus of Figure 10 is the elimination of a staging area in the apparatus design of Figure 9. After a card (not shown) in Figure 10 passes from rollers 140 to rollers 144, but before being passed to rollers 146, the card

would be held or staged by rollers 144. This can be eliminated by the design of rollers shown in Figures 14 and 15, with the movement of the cards timed to the movement of the elevator platform and the separation of the cards by the pickers.

**Page 88, lines 18-26:**

Figure 18 shows a vertical cutaway view of the shuffler 900 with card reading camera 916 therein. The various elements are shown in a different view, such as the pick off rollers 904 and 906 within the initial card set receiving area 902 with sensors 940. Sensor 920 is shown in Figure 9 as a card set sensor 920 that indicates that there are still cards in the initial card set area 902. Sensor 928 is in a more favorable card sensing position to act as a trigger for the camera 916. A set of sensors 922 and 926 operate as card position sensors to check for jamming, clearance, alignment, in-feed availability (into the elevator area 930. The sensors 938 and 926 may also act to assure that a card to be fed into the elevator 930 is properly positioned and available to be inserted by insert rollers 912.

**Page 98, line 2:**

A gaming system simulates events in a casino table card wagering game where there has traditionally been a dealer, whether or not the dealer is an active player in the game. Two distinct video areas are preferably provided, one providing video images of a virtual dealer, and the second video display providing a simulation of a table top for player cards, and optionally also dealer cards. The players have individual play areas with player input, and these play areas have individual processing intelligence that communicates directly with at least one processor. Delivery order of cards is determined by actual shuffling or randomization of a physical deck of cards, reading the cards, then creating an electronic file of the order of the shuffled or randomized cards, then using an order of cards contained in the electronic file to deliver virtual cards to players, dealer and flop as needed.